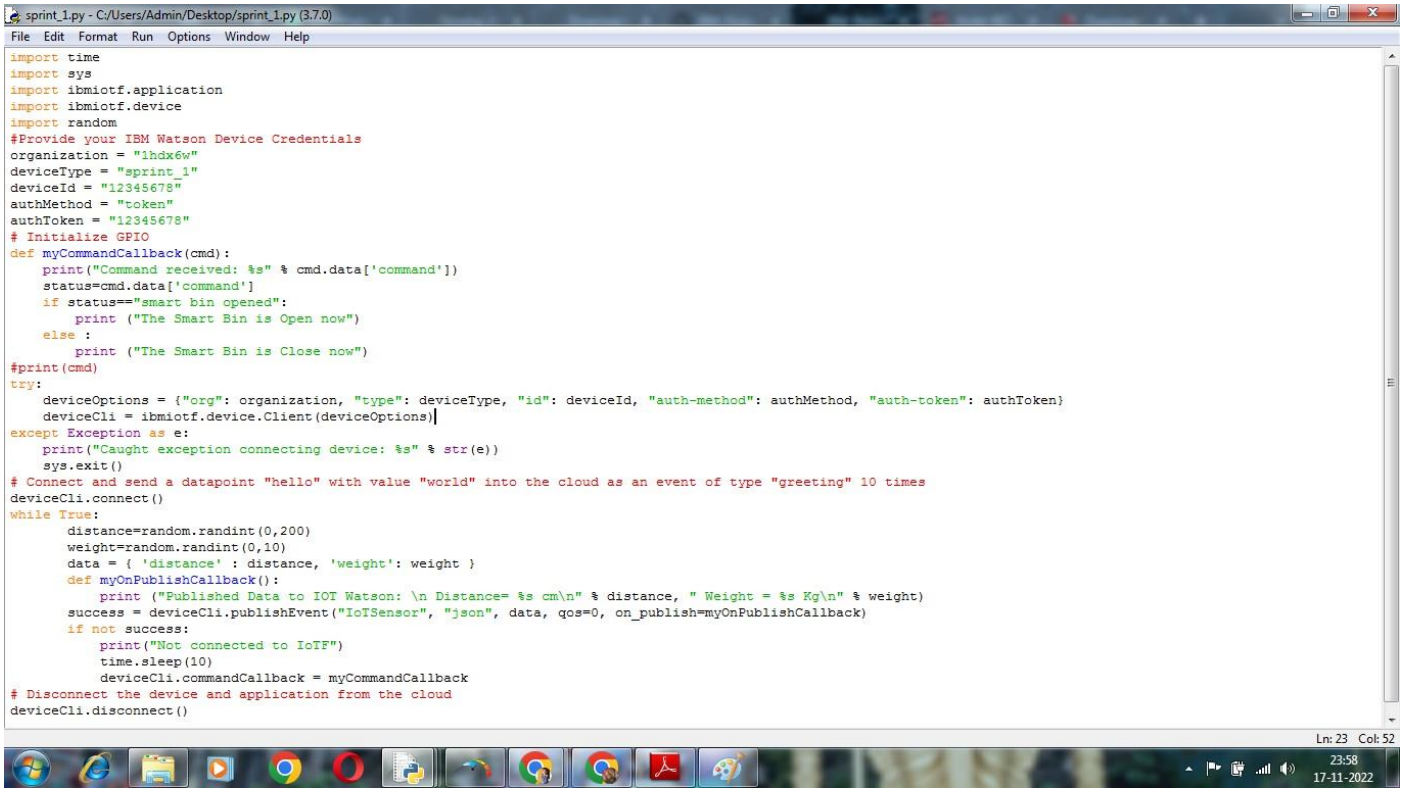
DELIVERY OF SPRINT 1

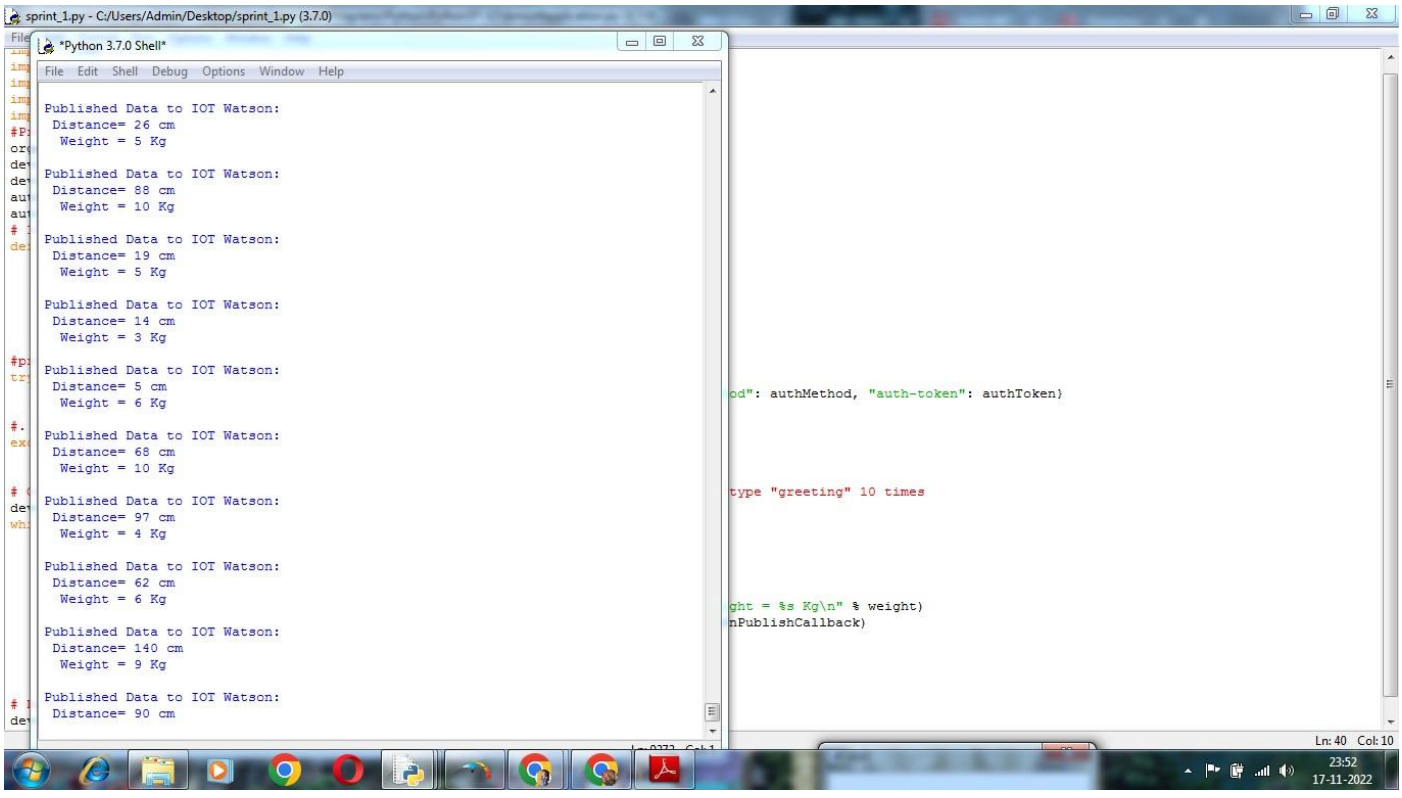
TEAM ID	PNT2022TMID50055
PROJECT NAME	Smart Waste Management System for metropolitan cities

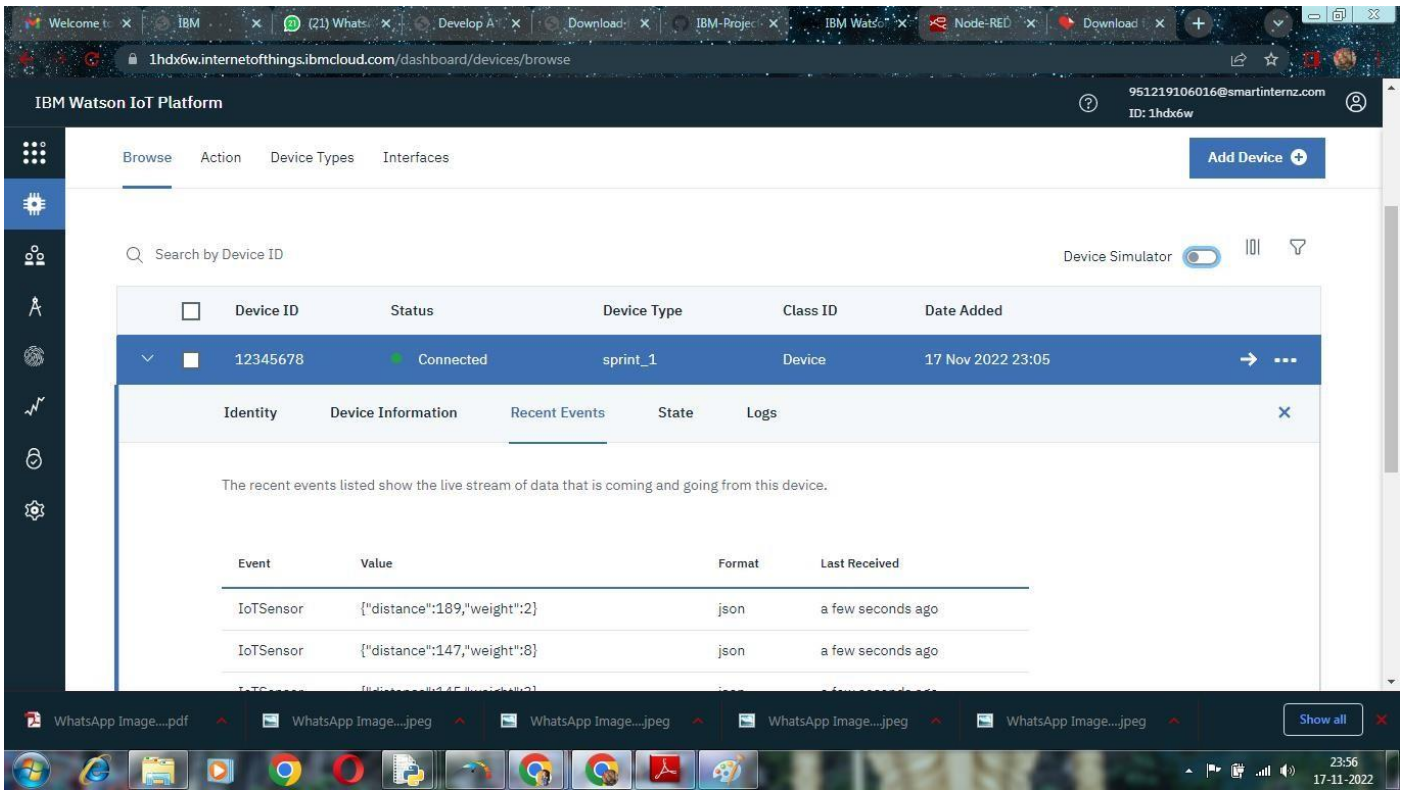
Sprint 1

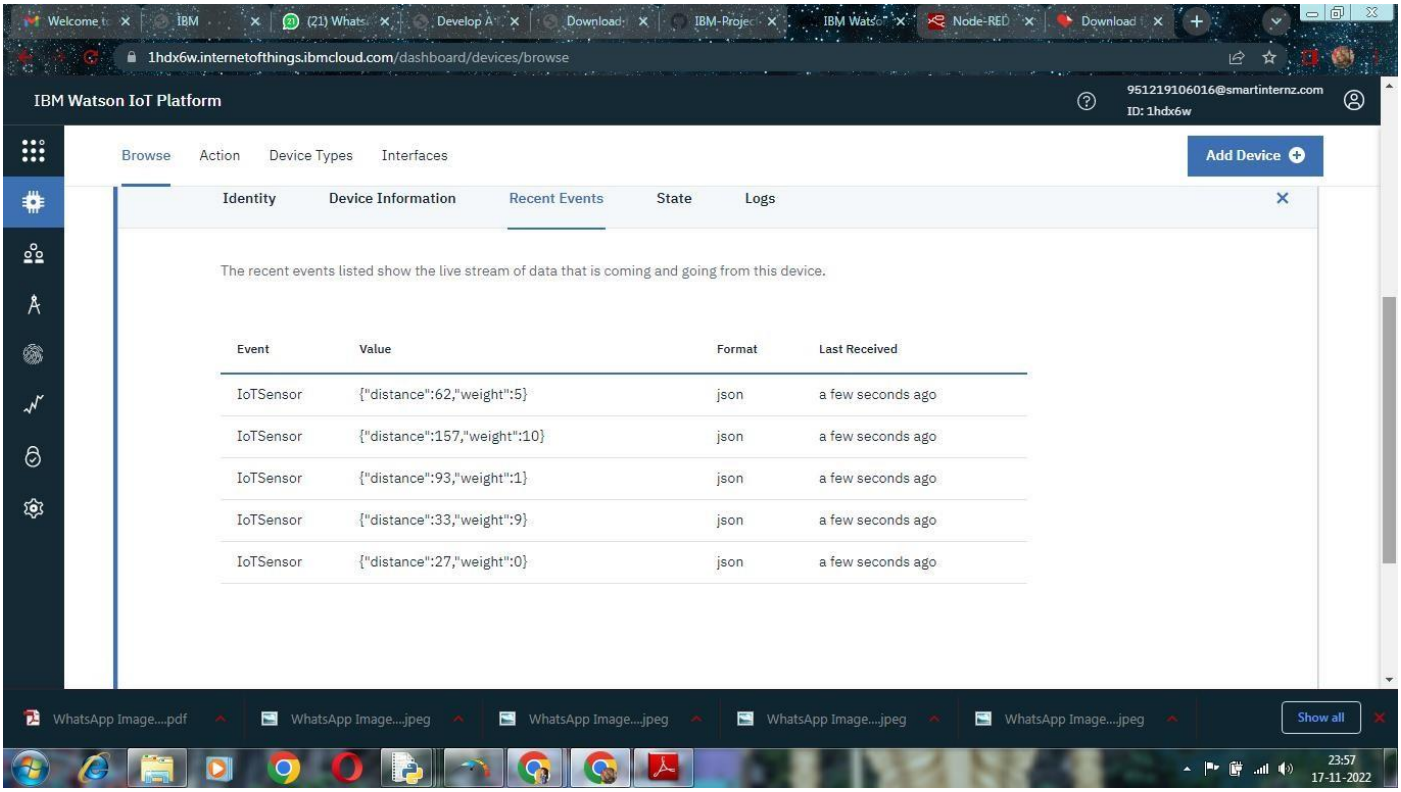
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "1hdx6w"
deviceType = "sprint_1"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="smart bin opened":
        print ("The Smart Bin is Open now")
    else :
        print ("The Smart Bin is Close now")
#print(cmd)
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod,
"auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10
times
deviceCli.connect()
while True:
        distance=random.randint(0,200)
        weight=random.randint(0,10)
        data = { 'distance' : distance, 'weight': weight }
        def myOnPublishCallback():
            print ("Published Data to IOT Watson: \n Distance= %s cm\n" % distance, " Weight = %s Kg\n" %
weight)
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
             time.sleep(10)
```

```
        deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```






1hdx6w.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
951219106016@smartinternz.com
ID: 1hdx6w
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
12345678
Connected
sprint_1
Device
17 Nov 2022 23:05
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"distance":189,"weight":2}
json
a few seconds ago
IoTSensor
{"distance":147,"weight":8}
json
a few seconds ago
Show all
23:56
17-11-2022


1hdx6w.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
951219106016@smartinternz.com
ID: 1hdx6w
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"distance":62,"weight":5}
json
a few seconds ago
IoTSensor
{"distance":157,"weight":10}
json
a few seconds ago
IoTSensor
{"distance":93,"weight":1}
json
a few seconds ago
IoTSensor
{"distance":33,"weight":9}
json
a few seconds ago
IoTSensor
{"distance":27,"weight":0}
json
a few seconds ago
Show all
23:57
17-11-2022